Grand Calumet River AOC Habitat Management Actions Update



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Dune & Swale Restoration Management Action #1

- ~900 acres across 15 properties
 - includes mgmt of shelf wetlands along the GCR
 - \$2.5 M awarded to IDEM on 9/11/15 from USEPA
 - MOA/Contract with IDNR and Lake Co. Parks (LCP)
 - IDNR and LCP contracting with private restoration companies to perform some of the work
 - IDNR has a sub-agreement with the Nature Conservancy
- Total project cost is nearly \$5M thru 2020.

Properties to be restored:

- Beemsterboer
- Cline Avenue NP
- Clark & Pine NP
- DuPont Natural Area
- Gary Lagoons
- Gibson Woods NP
- Ivanhoe Dune & Swale NP
- Ivanhoe South

- Lakeshore RR Prairie
- Martin Oil
- Pine Station NP
- Roxana Marsh
- Seidner Dune & Swale NP
- Tolleston Ridges NP
- USS Prairie













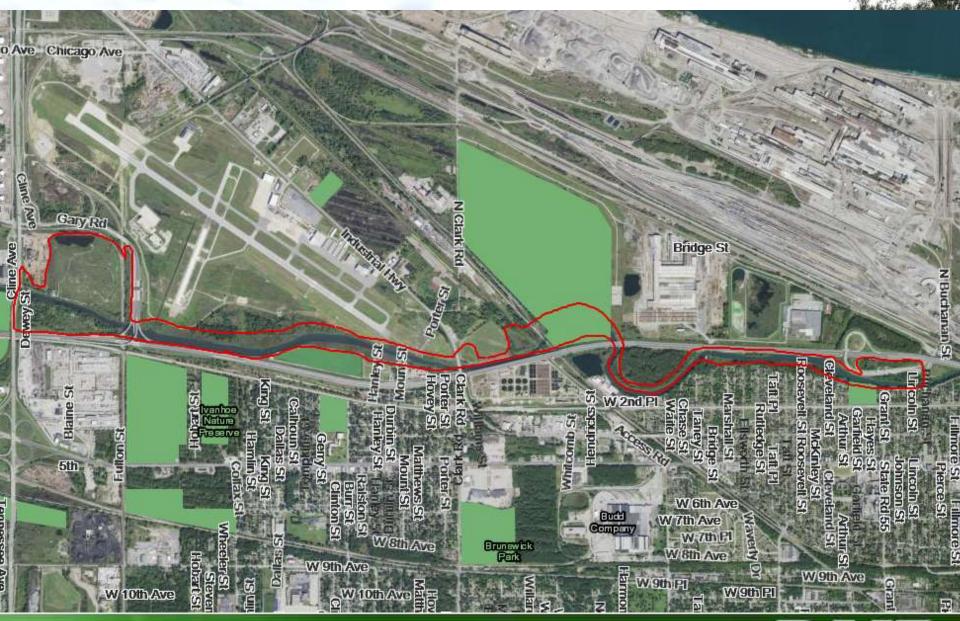






Riparian Corridor Invasive Vegetation Control Project Habitat Management Action #2

- Project not yet begun
- Plan is to control weeds (primarily Phragmites, cattail and purple loosestrife) in riparian corridor along GCR
 - Reduce seed sources that are upstream of restored sites
- Was suggested to be an EPA direct contract
- Work could be completed by boat with broadcast herbicide application
- Total project cost estimated ~ \$600,000



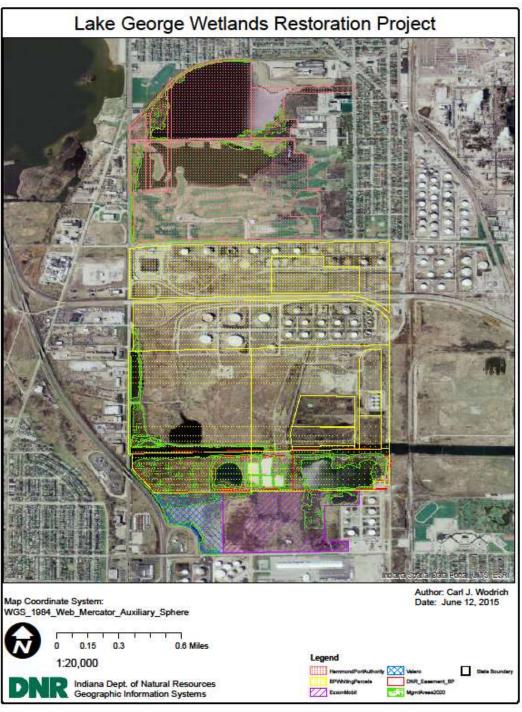
Lake George Branch Wetlands Restoration Project Habitat Management Action #3

- Phase 1
 - Initial restoration work funded by NFWF (SOGL) and USFWS (GLRI) w/matching funds from NRDA - 2013
 - \$742,000 total project thru April 2016
 - EPA secured funding (\$500,000) for the project for an additional four years

Lake George Branch Wetlands Restoration Project

- Phase 2
 - DNR awarded \$300,000 on April 1, 2016 by USEPA
 - Remaining \$200,000 awarded in mid 2017.
 - Continue invasive species control/removal
 - Prescribed burning in some, hopefully all, areas
 - Possible supplemental seeding/planting in 2019.
 - Monitoring work completed in August '14, '15, '16
 - Additional monitoring work in August '17 and '19
- Total project cost = \$500,000 thru 2019















March 8, 2014



George Lake Prescribed Burn December 2014



BP Wetland - May 2016



BP Wetland - July 2016





BP Wetland – August 2017



Lake Mary – July 2016



Lake Mary – August 2017



George Lake West Wetland August 2017

AOC Burn Plans & Prescribed Burning Habitat Management Action #4

- USFWS contracting out plans.
- DNR and/or partner land management entities will conduct burns and/or contract out burns with funding from EPA (possibly through USFWS/DNR)
 - 26 plans
- Total project cost estimated at \$600,000 through 2020.



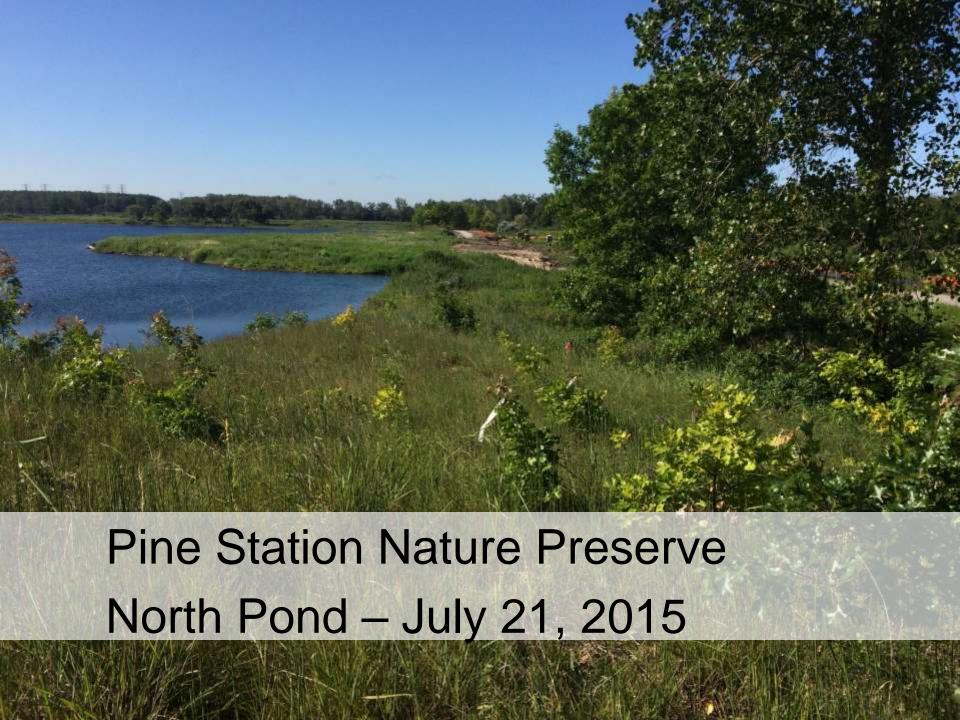
Pine Station Nature Preserve Habitat Management Action #5

- Ponds and Oxbow Restoration
 - USEPA funding USACE feasibility study and engineering design
 - Potential water control structure(s)
 - Habitat restoration in/around ponds
 - Grading and capping of ponds and fly ash
 - Restoration of berm btw south pond and river
 - Restoration of "oxbow" wetland/marsh





Pine Station Nature Preserve South Pond/GCR – May 2016





It's all about the Partnerships





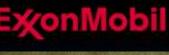


















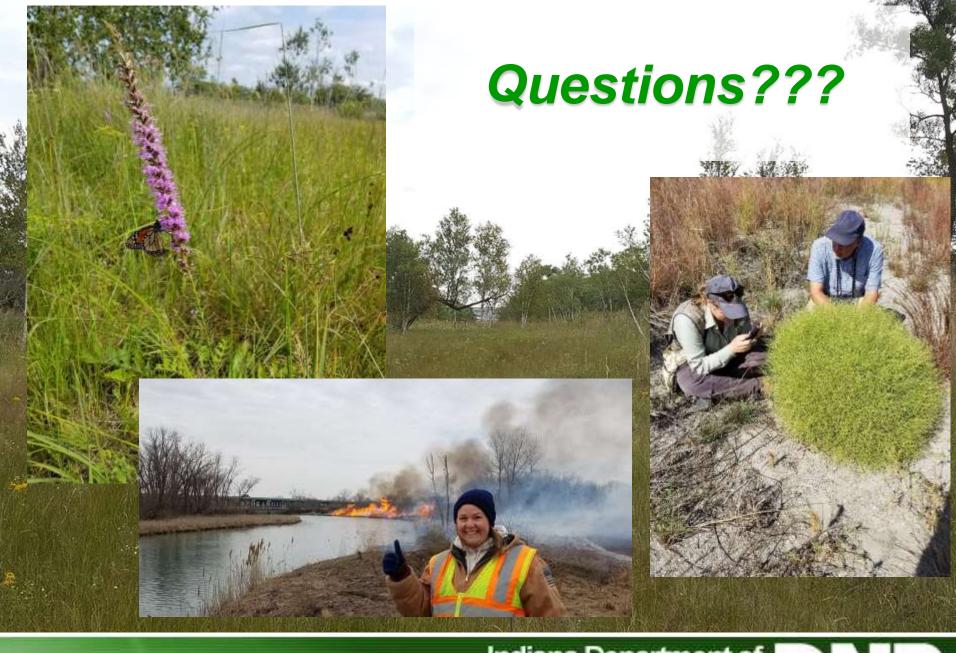












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